



qqH->qqWW->qqllvv

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Comments and Plans

**Present studies concentrate only on leptons
CompHEP + PYTHIA is done. Forced proper
decays of:**

- **Signal : jjH ; $H \rightarrow WW \rightarrow ll\nu\nu$ ($l=e$ or μ)**
- **Bkgrnd : jjZ ; $Z \rightarrow \tau\tau \rightarrow ll\nu\nu$ ($l=e$ or μ)**
- **Bkgrnd : ttj ; $t \rightarrow Wb$; $W \rightarrow l\nu$ ($l=e$ or μ)**

**Understand Rainwater & Zeppenfeld analyses
and the present one**

Concentrate on jets next

**Selection of tagging jets; identify optimized
cuts**

Final ORCA analyses to be done later:



Comments and Plans

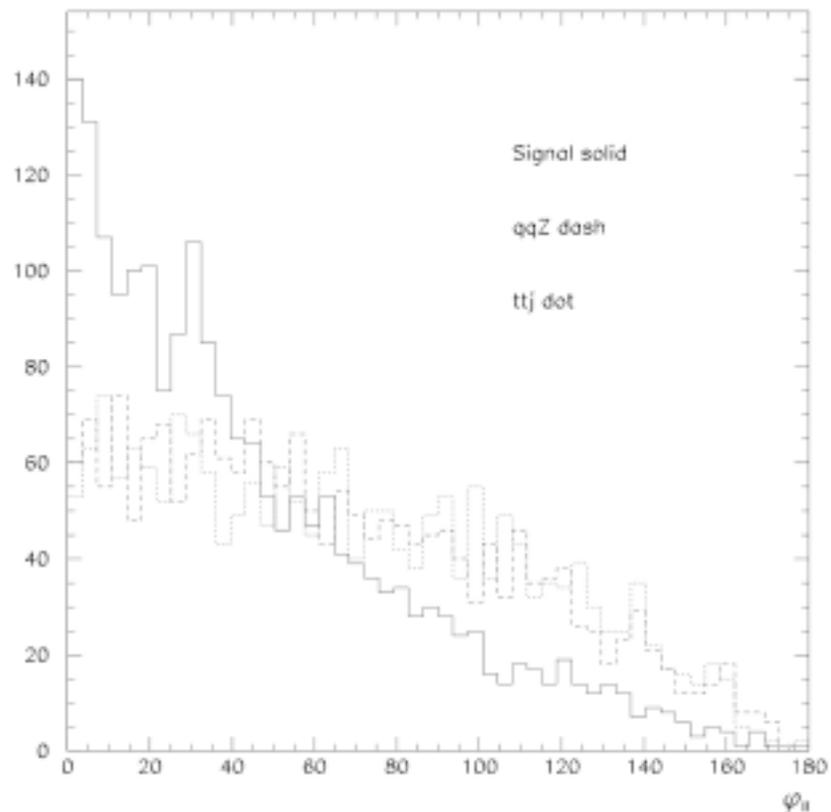
Signal (Pythia) and (CompHEP), each 20K, digis in FNAL user federation

Recently found a bug in CompHep – Pythia interface; QCD scale for FSR was wrong !, fixed

- **Re-process signal (CompHEP) events**
- **Process backgrounds;**
 - ttj**
 - Zjj**
 -**

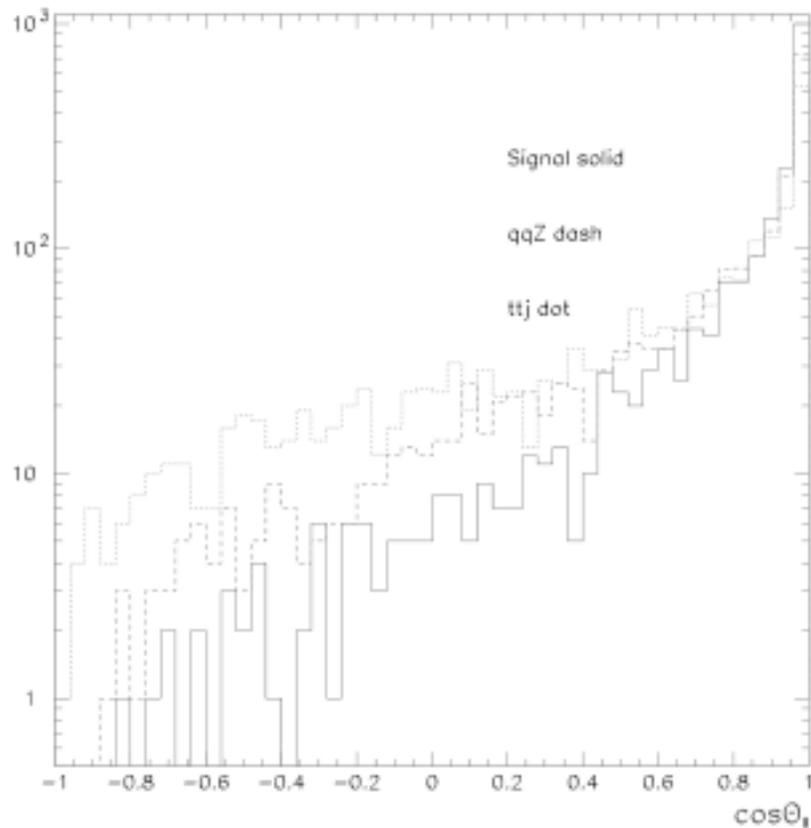


Azimuthal opening angle



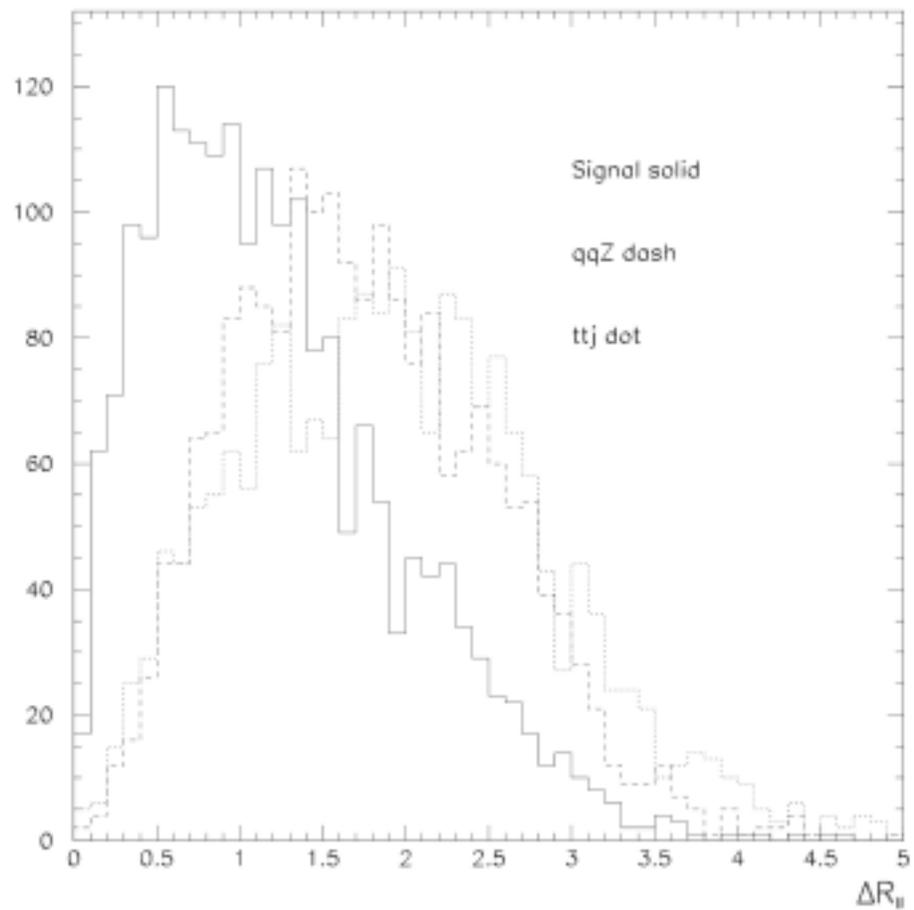


Polar opening angle



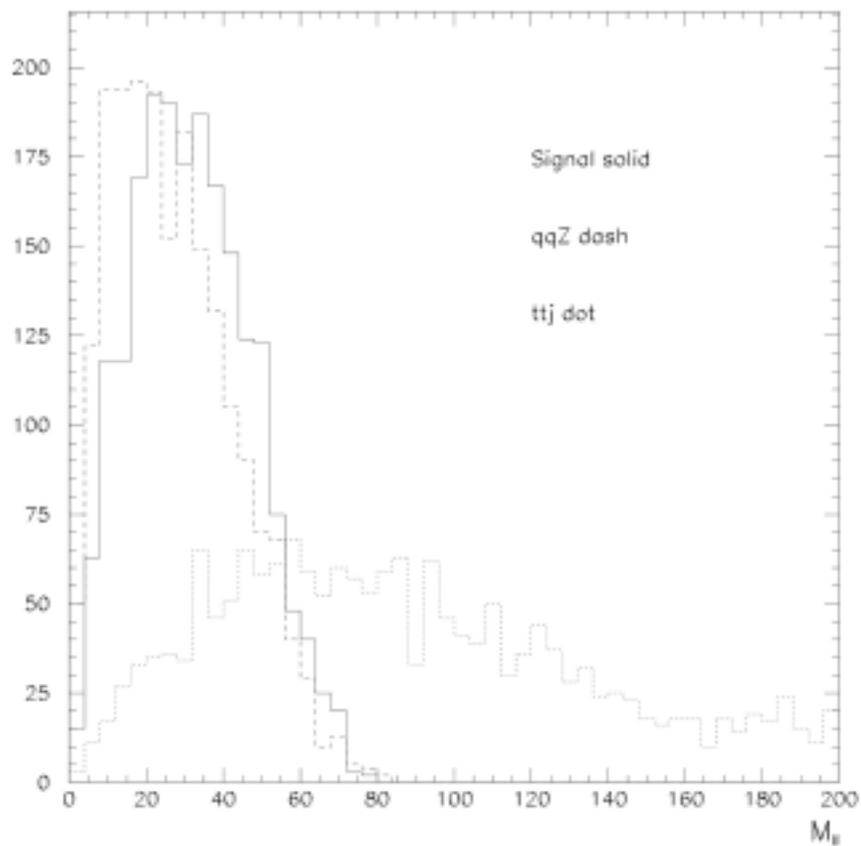


ΔR separation of leptons





Dilepton invariant mass





Max. lepton momentum

